

Color Video Monitor

Instruction Manual

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

The product's exterior design and specifications may subject to change without prior notice for quality improvement.

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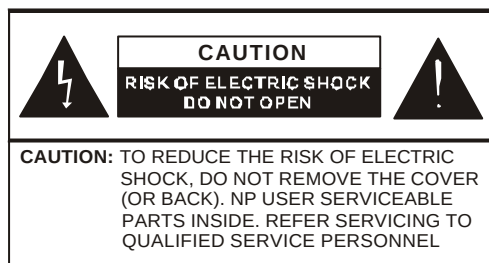
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WARNING – To Prevent Fire or Shock Hazard, Do Not Expose This Monitor To Rain or Moisture.

PRECAUTION



Graphic Symbol Explanation

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



SCOPE

The information in this instruction manual covers the installation and operation of the color monitor. This unit should be installed with approved materials and wiring practices in accordance with the National Electrical Code and applicable local wiring ordinances.

INTRODUCTION

The color video monitor features high resolution at both center & corner, which produces crisp, high-quality video images for any installation purpose. For industrial applications, the monitor accepts a standard NTSC or PAL color input signal and provides loop-through connectors with auto termination. The On Screen Display (OSD). Provides controls for tint, color, brightness, contrast volume and channel select for A / B / Y/C selection. All controls are located on the front panel for easy access. Furthermore, a regulated power supply maintains excellent performance during fluctuations in line voltage. This monitor is suitable for specialized and industrial CCTV surveillance applications where clear, high quality pictures and proven system reliability are required.

IMPORTANT SAFEGUARDS

All the safety and operating instructions should be read before the appliance is operated.

1. **Retain instructions:** The safety and operating instructions should be retained for future reference.
2. **Heed Warnings:** All warnings on the monitor and in the operating instructions should be adhered to.
3. **Follow Instructions:** All operating and use instructions should be followed.
4. **Cleaning:** Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Exception. A monitor that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the monitor in the cleaning description otherwise required in item 5.
5. **Attachments:** Do not use attachments not recommended by the manufacturer as they may cause hazards.
6. **Water and Moisture:** Do not use this monitor near water – for example, a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or a swimming pool, and the like.
7. **Accessories:** Do not place this monitor on an unstable cart, stand, tripod, bracket, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the monitor. Any mounting of the monitor should follow the manufacturer's instructions, and recommended by manufacturer.
8. **Ventilation:** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the monitor and to protect it from overheating, and these openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surface. This monitor should never be placed near or over a radiator or heat register. This monitor should not be placed in a built in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer instructions have been adhered to.
9. **Power Sources:** This monitor should be operated only from the type of power source indicated on the making label. If you are not sure the type of power supply to the installation site, consult with your dealer or local power company.
10. **Grounding or Polarization:** For monitors equipped with a 3-wire grounding type plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
11. **Power:** Cord Protection-Power supply cords should be routed well so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the monitor.
12. **Lightning:** For added protection for this monitor during a lightning storm, or when it is left unattended and unused

for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the monitor due to lighting and power-line surges.

13. **Overloading:** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
14. **Object and Liquid Entry:** Never push objects of any kind into this monitor through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the monitor.
15. **Servicing:** Do not attempt to service this monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. **Damage Requiring Service:** Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions.
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the monitor.
 - c. If the monitor has been exposed to rain or water.
 - d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to its normal operation.
 - e. If the monitor has been dropped or the cabinet has been damaged.
 - f. When the monitor exhibits a distinct change in performance – this indicates a need for service.
17. **Replacement Parts:** When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.
18. **Safety Check:** Upon completion of any service or repairs to this monitor, ask the service technician to perform safety checks to determine that the monitor is in proper operating condition.

ACCESSORIES

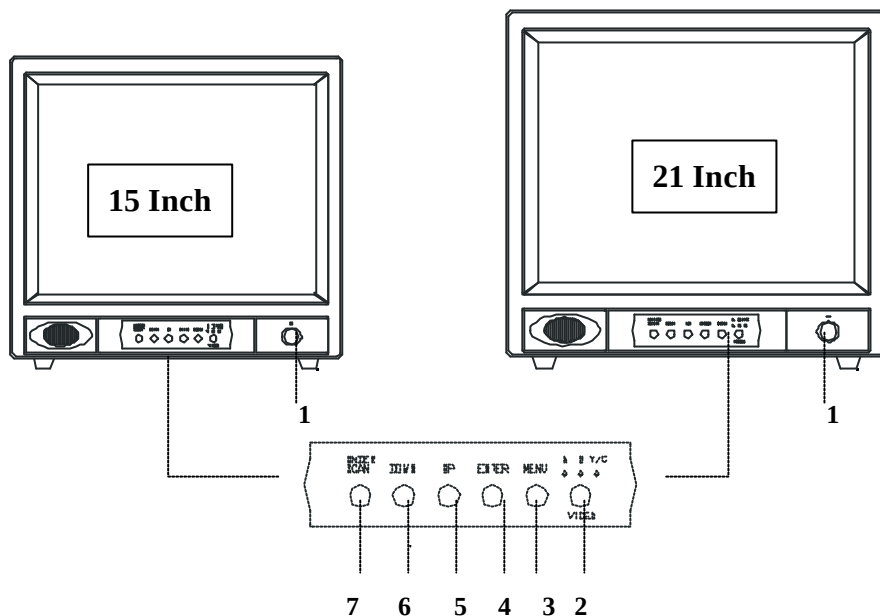
This package is basically including:

- 1 x monitor
- 1 x instruction manual
- 1 x power cord

FEATURES

- High resolution
- Looping Video in/out
- Y/C in/out (for 15" & 21")
- Automatically detect and switches for NTSC/PAL system
- Simple OSD controls
- Rugged metal cabinet
- With optional audio function

FUNCTION DESCRIPTION for 15 / 21 Inch

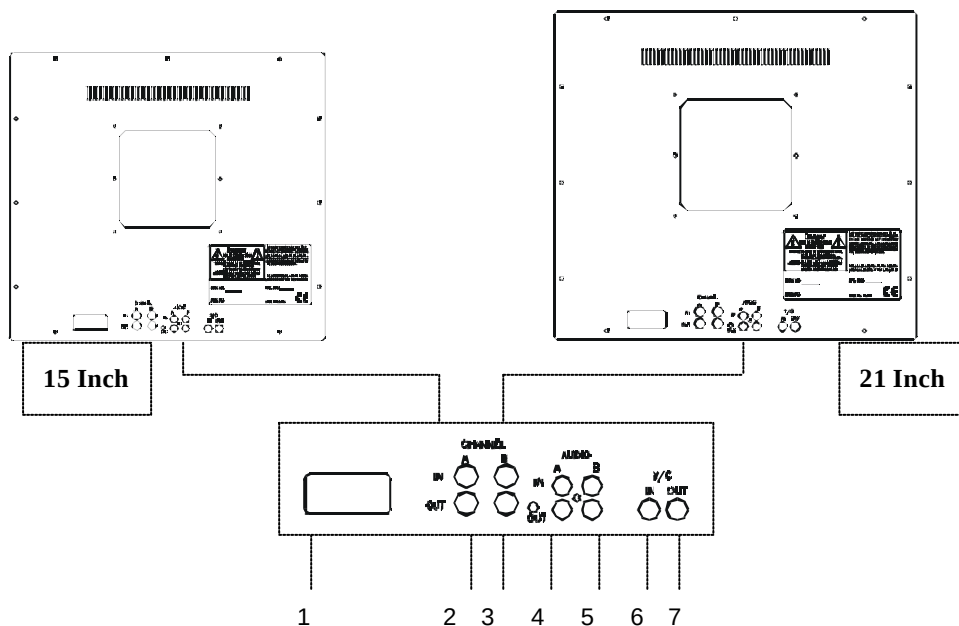


FRONT PANEL CONTROLS

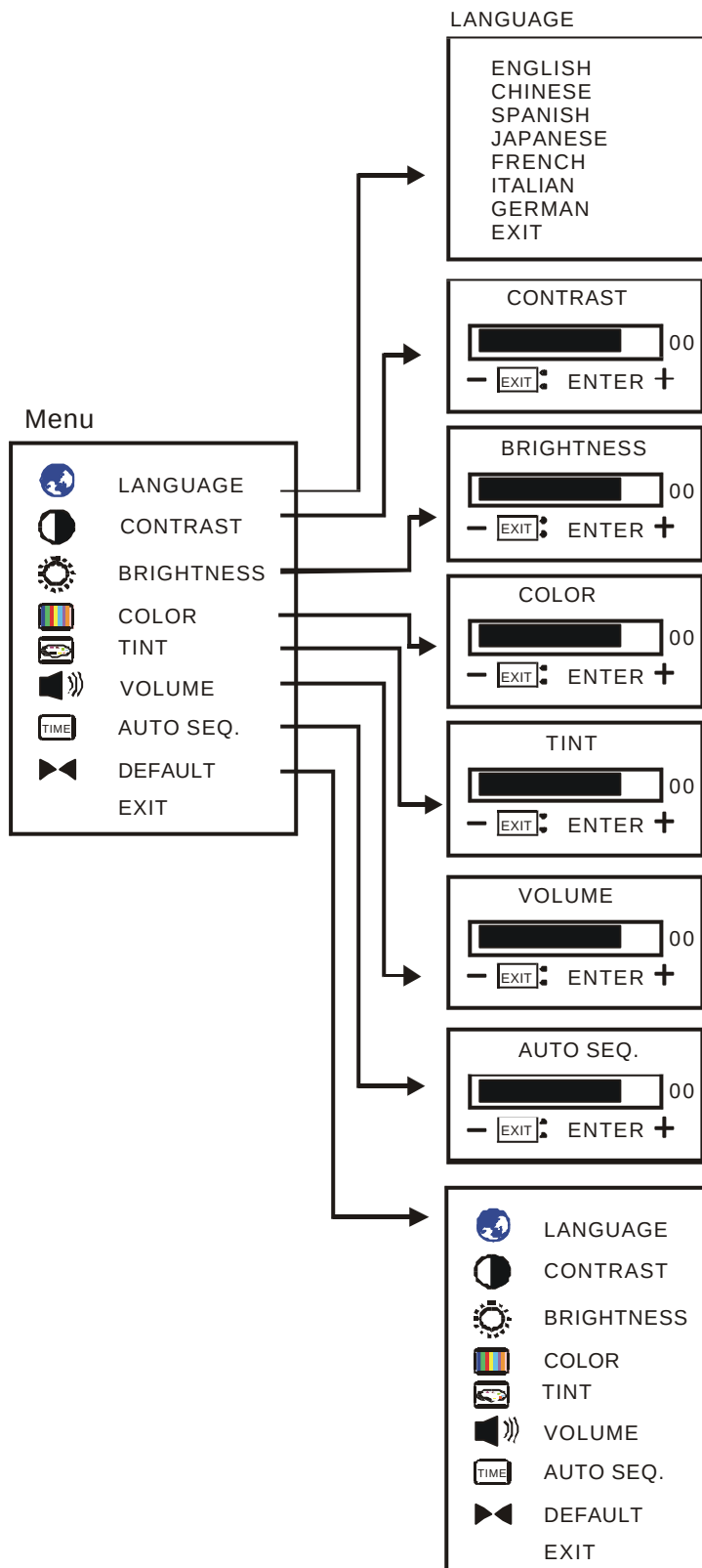
1. POWER ON/OFF SWITCH
2. VIDEO (A / B / Y/C)
3. MENU
4. ENTER
5. UP
6. DOWN
7. UNDER SCAN

REAR PANEL CONNECTIONS

1. POWER
2. CHANNEL IN/OUT (A)
3. CHANNEL IN/OUT (B)
4. AUDIO IN/OUT (A)
5. AUDIO IN/OUT (B)
6. Y/C IN
7. Y/C OUT



OSD Function



AUTO SEQ.: When auto seq. is running, press the Enter key to choose one of them (A / B / Y/C Video) to stop Sequential.

INSTALLATION

CAUTION: Do not install this monitor in an excessively hot location , or in any way obstruct the ventilation openings in the cabinet. Premature component failure or damage to the cabinet may result. When the monitor is not to be used for several days, it is advisable to disconnect the AC power cord from the utility outlet. To reduce the risk of electric shock , do not remove cover or back. No user-serviceable parts are inside. Refer servicing to qualified personnel. Some household aerosol sprays, cleaning agents, solvents or polishes may cause damage to the cabinet finish. Best results for cleaning are obtained with mild soap and water, and a soft cloth for drying.

INSTALLING THE MONITOR

1. Connect the coaxial cable from the video equipment to any VIDEO-IN BNC connector of this unit.
2. If loop-through video configuration is desired, connect a coaxial cable from the VIDEO-OUT BNC connector to the VIDEO-IN BNC connector on the next monitor.
3. Plug the power cord into the applicable utility outlet.

TROUBLE SHOOTING

Incorrect operations may result in trouble or malfunction to the unit, before referring to the authorized personnel, please check the followings firstly and investigate the components and electrical appliances as used. If the troubles still can not be solved, please ask your dealer for further detailed checking.

Power does not come on even when power switch is pressed

Check if the power cord is connected securely.

Flashy Image Display

Adjust the controls (ex. contrast, brightness,.....etc.) well.

Ghosting Image Display

Check if there are any glasses put in front of camera, if not, then contact with your dealer for further examination.

No Image shown on the screen

Check if the video cable and camera are connected well.

SPECIFICATION

General	15"	21"
Construction	Steel cabinet with Plastic front panel	Steel cabinet with Plastic front panel
Finish	Black or white matte Texture coat finish	Black or white matte Texture coat finish
N.W. / G.W. (kg)	15 / 18.5	28 / 33.5
Dimension (D x W x H) m/m	320 x 362 x 342	420 x 490 x 445
Master Carton (pc/ctn)	1 pc/ctn	1pc/ctn
Front Panel Controls		
Power ON/OFF	Push Switch	Push Switch
Color / Contrast	OSD	OSD
Brightness	OSD	OSD
TINT (NTSC only)	OSD	OSD
Volume	OSD	OSD
Electrical		
Input Voltage	96~256 Vac 50Hz/60Hz	96~256 Vac 50Hz/60Hz
Power Consumption	63 W	75 W
Input Signal	Composite 1 Vp-p	Composite 1.0 Vp-p
Subcarrier Frequency		
Input Impedance	75 ohms or high (switchable)	75 ohms or high (switchable)
Band Width	8 MHz	8 MHz
Video Gain	30dB	30dB
Resolution	520	520
Linearity		
Horizontal	10 % Max	10 % Max
Vertical	10 % Max	10 % Max
Operation System		
NTSC	525 lines, 60 fields/ sec.	525 lines, 60 fields/ sec.
PAL	625 lines, 50 fields/ sec.	625 lines, 50 fields/ sec.
Connections		
Y/C (In /Out) – 4 pin DIN	4 pin DIN connect x 2	4 pin DIN connect x 2
Video (In/Out)	BNC x 4	BNC x 4
With audio Monitor		
Audio (In/Output)	RCA jack x 4	RCA jack x 4
Audio Input Signal	10~150mVp-p	10~150mVp-p
Audio Amplifier	1W / 8 ohm	1W / 8 ohm
Environment		
Operation temperature	-10 to 55° C (50 to 130° F)	-10 to 55° C (50 to 130° F)
Humidity	0% to 90% (non-condensing)	0% to 90% (non-condensing)

